

SQA Advanced Unit specification

General information for centres

Unit title: Golf Course Management: Design and Construction of Golf Course Features

Unit code: HW81 47

Unit purpose: This Unit is designed to enable candidates to develop the knowledge and skills required to evaluate golf course design, plan a golf course and construct a golf course hole. On completion of the Unit the candidate should be able to identify and appraise different golf course types, their design and layout principles relating to the game of golf, and construction methods including Specifications, Bills of quantity and Tender Documents.

- 1 Evaluate course design in the context of design principles for the game of golf and course management.
- 2 Plan and produce a drawing for a new 18 hole golf course for a given site.
- 3 Prepare a programme of work for the construction of one complete golf hole.

Credit points and level: 2 SQA Credits at SCQF level 7: (16 SCQF credit points at SCQF level 7*)

**SCQF credit points are used to allocate credit to qualifications in the Scottish Credit and Qualifications Framework (SCQF). Each qualification in the Framework is allocated a number of SCQF credit points at an SCQF level. There are 12 SCQF levels, ranging from National 1 to Doctorates.*

Recommended prior knowledge and skills: Entry to this Unit is at the discretion of the centre. However, it is recommended that the candidate has achieved the National Certificate in Greenkeeping, especially Units:

- ◆ E9E7 11 *Golf Course Design and Layout*
- ◆ E9A4 11 *Golf Course Construction: Greens and Tees*
- ◆ E98Y 11 *Golf Course Construction: Bunkers*

Core Skills: There are opportunities to develop the Core Skill of *Communication, Numeracy* and *Problem Solving* at SCQF level 6 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

Context for delivery: If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

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Assessment: This Unit is assessed by three assessments. Outcome 1 is assessed by a report. Outcome 2 is assessed by an Assignment and Outcome 3 is assessed by portfolio of evidence. There are opportunities for integration of assessment between Outcomes 2 and 3. Assessment should reflect the teaching approach taken by an individual centre. An integrated approach to assessment is highly recommended. Achievement of those Units listed in the Context for Delivery section will contribute to completion of the Unit assessments.

SQA Advanced Unit specification: statement of standards

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The sections of the Unit stating the Outcomes, Knowledge and/or Skills, and Evidence Requirements are mandatory.

Where evidence for Outcomes is assessed on a sample basis, the whole of the content listed in the Knowledge and/or Skills section must be taught and available for assessment. Candidates should not know in advance the items on which they will be assessed and different items should be sampled on each assessment occasion.

Outcome 1

Evaluate course design in the context of design principles for the game of golf and course management

Knowledge and/or Skills

Golf course environments:

- ◆ Links land
- ◆ Park land
- ◆ Heath land
- ◆ Moor land

Design philosophies of golf course design and suitability for the game of golf:

- ◆ Penal
- ◆ Strategic
- ◆ Heroic
- ◆ Ease of maintenance

Evidence Requirements

Appraisal of an 18 hole golf course with reference to the fundamental design philosophies, course type, course layout, length, size, hazards, trees, shrubs and aesthetic appeal.

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ identify different types of golf course environments
- ◆ define the design terms, Penal, Strategic and Heroic
- ◆ explain the design requirements for ease of maintenance
- ◆ appraise golf course components

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Assessment Guidelines

Outcome 1 is assessed by a Report. Assessment could be achieved by comparing the different types of golf course environments from visits to classic examples of golf course types noting the various design philosophies applied with reference to all the components of design and ease of maintenance.

Assessment should comply with a standard report format and should not exceed 1,000 words.

The appraisal Element should form a written report, conforming to a given format, on a named golf course, hole by hole describing all design-philosophy components, good and bad, photographs, diagrams and illustrations should be encouraged to enhance the appraisal. The assessment should be conducted under open-book (no restrictions) conditions.

Outcome 2

Plan and produce a drawing for a new 18 hole golf course for a given site

Knowledge and/or Skills

- ◆ Land contours and how they can be utilised for golf course design
- ◆ The use of scale to draw and interpret length and distance
- ◆ Golf course design philosophy
- ◆ Drawing skills for the production of neat, legible, well presented plans to scale
- ◆ Interpretive skills

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ submit plan drawings to scale including interpretive keys supported with a written description/explanation of the candidate's golf course design
- ◆ the written description should include design philosophy over at least two holes

Assessment Guidelines

Outcome 2 is assessed by an Assignment. This requires the creation of a unique 18 hole golf course plan to scale 1:2000, 1:2500, designed to a set brief, following Dr Alister Mackenzie's guidelines, within the boundaries of the area, inclusive and restrictive parameters eg, plantations, water, slope and mounds must be considered. The assessment should be conducted under open-book (no restrictions) conditions. The assessment for this Outcome may be integrated with that for Outcome 3.

Outcome 3

Prepare a programme of work for the construction of one complete golf hole

Knowledge and/or Skills

- ◆ A range of construction methods
- ◆ Scale drawing and interpretation of the drawing
- ◆ Estimated resource requirements
- ◆ Estimated costs
- ◆ Installation methods
- ◆ Specification documents

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- ◆ Quantities of materials and calculations for area and volume
- ◆ The importance of producing specifications
- ◆ Bill of Quantities and Tender Documents

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ submit a scaled up drawing eg scale 1:500 for one complete golf hole
- ◆ identify the various components of the hole to be constructed
- ◆ prepare calculations of area and volume to a specification of the various components
- ◆ provide costs for the materials of the various components
- ◆ submit documents for Bills of Quantities, Specifications along with a Tender document
- ◆ describe in a portfolio the sequence of events with evidence of practical construction work

Assessment Guidelines

Outcome 3 is assessed by a Portfolio. The portfolio of work could be from an existing ongoing practical construction project, supported by documentation gathered during construction, or alternatively, a portfolio could be produced by developing one of the holes from the plan drawing from Outcome 2. One complete hole should be scaled up for the purposes of calculating area and volume to provide quantities and costs. This alternative will facilitate those students who do not have access to a practical construction project. In this way the assessment for this Outcome may be combined with that of Outcome 2. The assessment should be conducted under open-book (no restrictions) conditions.

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Administrative Information

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SQA Advanced Unit specification: support notes

Unit title: Golf Course Management: Design and Construction of Golf Course Features

This part of the Unit specification is offered as guidance. The support notes are not mandatory.

While the exact time allocated to this Unit is at the discretion of the centre, the notional design length is 80 hours.

Guidance on the content and context for this Unit

This Unit is devised for use by students undertaking the SQA Advanced Certificate/in Golf Course Management or the SQA Advanced Diploma in Golf Management and, as such, is complementary to other Units within these Awards. There are significant opportunities for integration of teaching and learning with other Units in these Awards: *Selection and Management of Machinery; Preparation, Presentation and Management of Golf Course Budgets; Supervision and Management; Managing Turf Areas.*

Guidance on the delivery and assessment of this Unit

There are significant opportunities for integration of teaching and learning with other Units in this Award: *Selection and Management of Machinery; Preparation, Presentation and Management of Golf Course Budgets; Supervision and Management; Managing Turf Areas.*

This Unit is assessed by three assessments and the assessments for Outcomes 2 and 3 should be of a practical nature. An integrated approach to assessment is highly recommended. There are opportunities for integration of assessment between Outcomes 2 and 3. Assessment should reflect the teaching approach taken by the individual centre. Achievement of those Units listed above will contribute to completion of the Unit assessments.

Opportunities for developing Core Skills

There are opportunities to develop the Core Skill of *Communication, Numeracy and Problem Solving* at SCQF level 6 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

Open learning

This Unit is entirely suitable for delivery by open learning and other flexible delivery modes. Where this is the case it is essential that the candidate has access to a range of golf course types eg links, park land, moor land, etc. It is also desirable, though not essential, that the candidate is in employment in a golf related industry.

Equality and inclusion

This unit specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence.

Further advice can be found on our website www.sqa.org.uk/assessmentarrangements.

General information for candidates

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On completion of the Unit you should be able to: identify and appraise different golf course types, their design and layout principles relating to the game of golf, and construction methods including Specifications, Bills of quantity and Tender Documents.

- 1 For Outcome 1 you will learn about course design for the game of golf and ease of course management.

Golf course environments; links land; park land; heath land; moor land.

The fundamental design Philosophies of golf course design and suitability for the game of golf: Penal; Strategic; Heroic; Ease of maintenance.

You will be assessed on your ability to: appraise an 18 hole golf course with reference to the Fundamental Design Philosophies, course type, course layout, length, size, hazards, trees, shrubs and aesthetic appeal.

- 2 Outcome 2 is about golf course design and layout principles relating to the game of golf. You will learn about land contours and how they can be used for golf course design, the use of scale to draw and interpret length and distance.

You will need to produce evidence for assessment to demonstrate that you can plan and produce a drawing for a new 18 hole golf course for a given site.

- ◆ submit plan drawings to scale including interpretive keys supported with a written description/ explanation of your golf course design
- ◆ your written description should include design philosophy over at least two holes

- 3 To complete Outcome 3 you will estimate resource requirements and programme work for the construction of one complete golf hole. You will learn about a range of construction methods, including costs, materials, land movement, equipment, and installation methods required to construct one complete golf hole specifically: Specification documents, quantities of materials and calculations for area and volume; The importance of producing specifications: Bill of Quantities, and Tender Documents; Practical skills to participate in the construction of golf course elements.

In order to complete your assessment you will need evidence to demonstrate that you can:

- ◆ submit a scaled up drawing eg scale 1:500 for one complete, golf hole
- ◆ identify the various components of the hole to be constructed
- ◆ calculate area and volume to a specification of the various components
- ◆ provide costs for the materials of the various components
- ◆ submit documents for Bills of Quantities, Specifications along with a Tender document
- ◆ describe in a portfolio the sequence of events with evidence of practical construction work